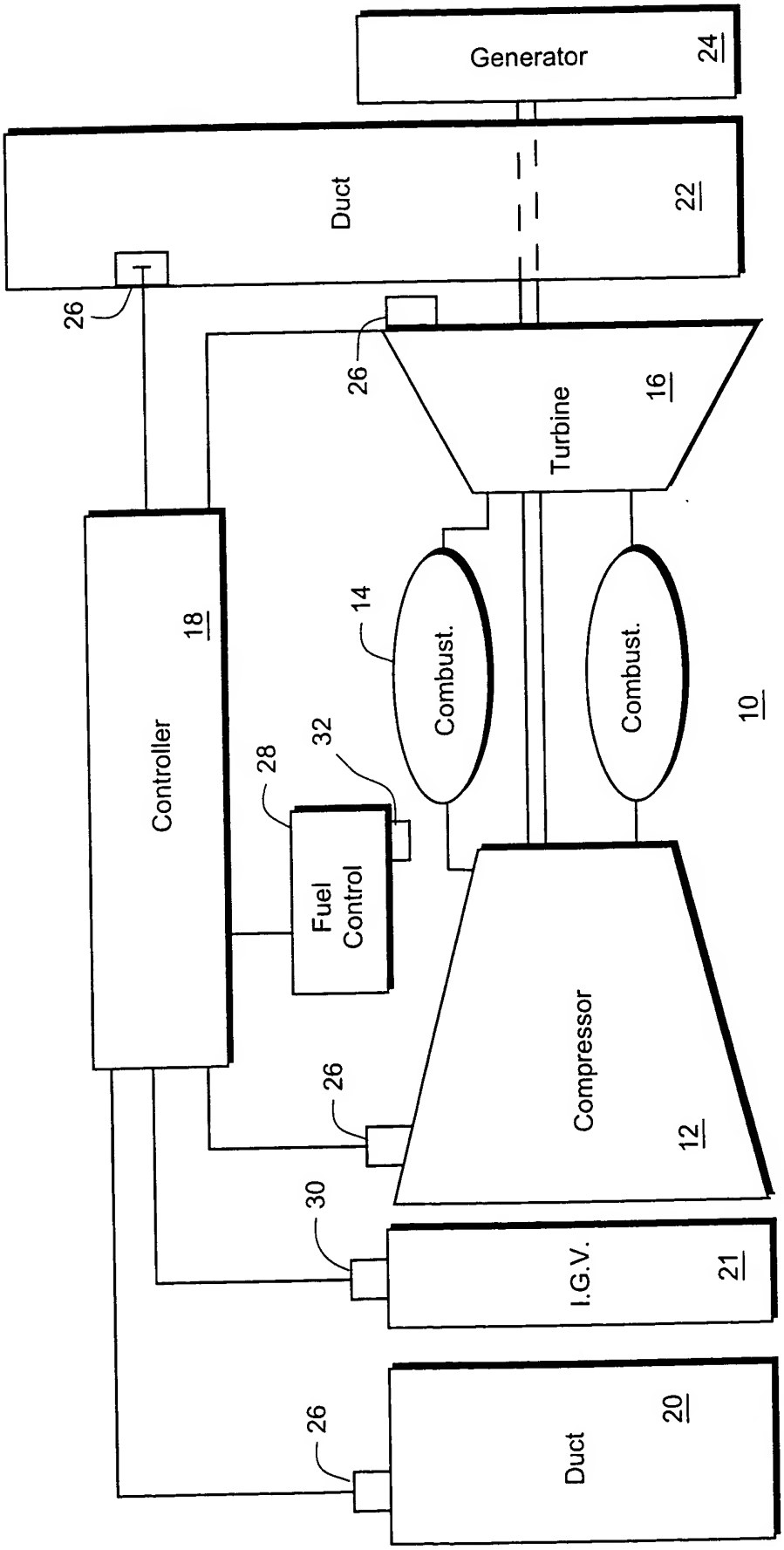
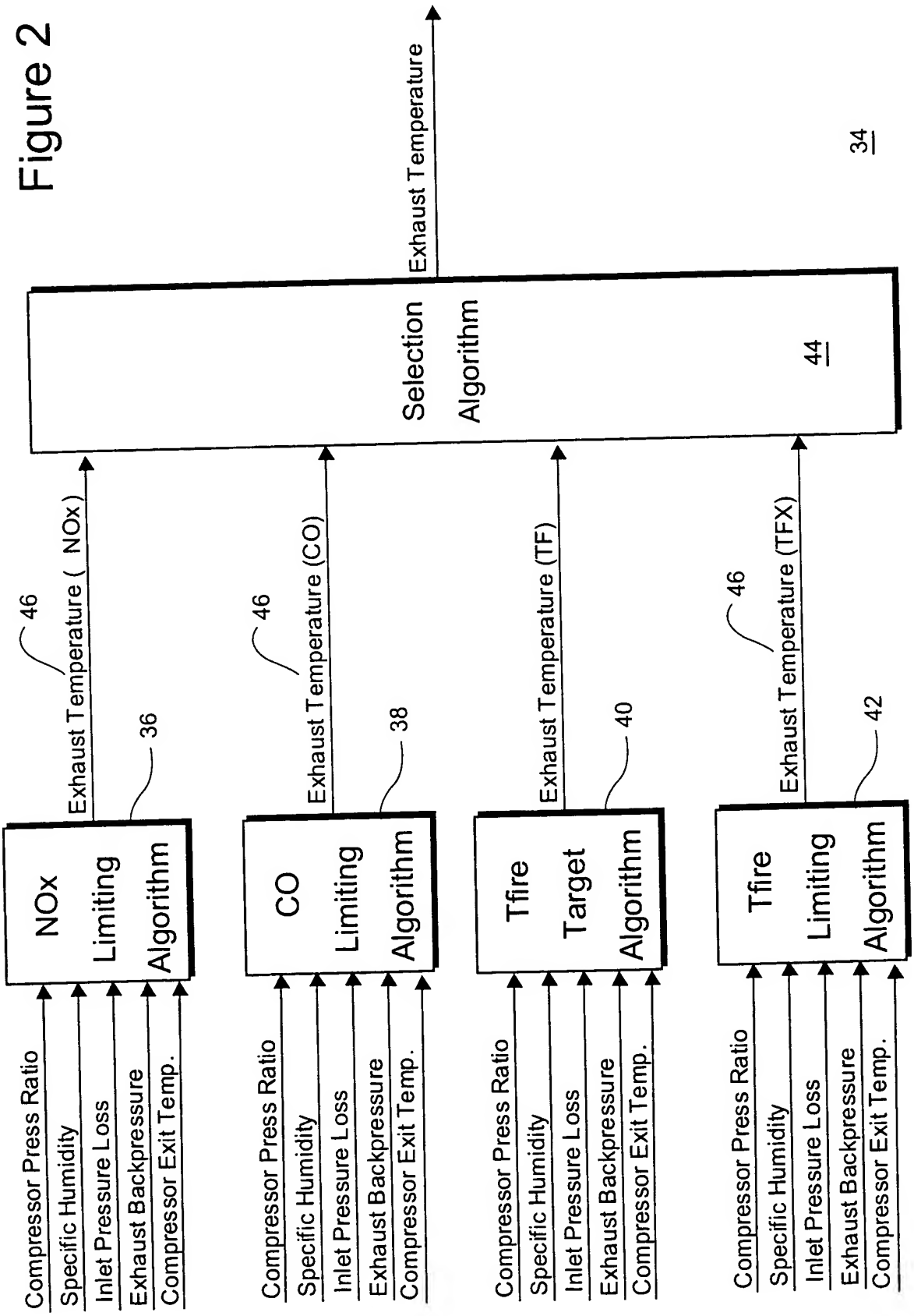

Generator
24
Duct
22
26
26
Turbine
16
Controller
18
14
Combust.
Combust.
10
28
32
Fuel
Control
Compressor
12
26
30
I.G.V.
21
26
Duct
20

Figure 1

Figure 2


Exhaust Temperature
34
Selection Algorithm
44
46
Exhaust Temperature (NOx)
46
Exhaust Temperature (CO)
46
Exhaust Temperature (TF)
46
Exhaust Temperature (TFX)
NOx Limiting Algorithm
36
CO Limiting Algorithm
38
Tfire Target Algorithm
40
Tfire Limiting Algorithm
42
Compressor Press Ratio
Specific Humidity
Inlet Pressure Loss
Exhaust Backpressure
Compressor Exit Temp.

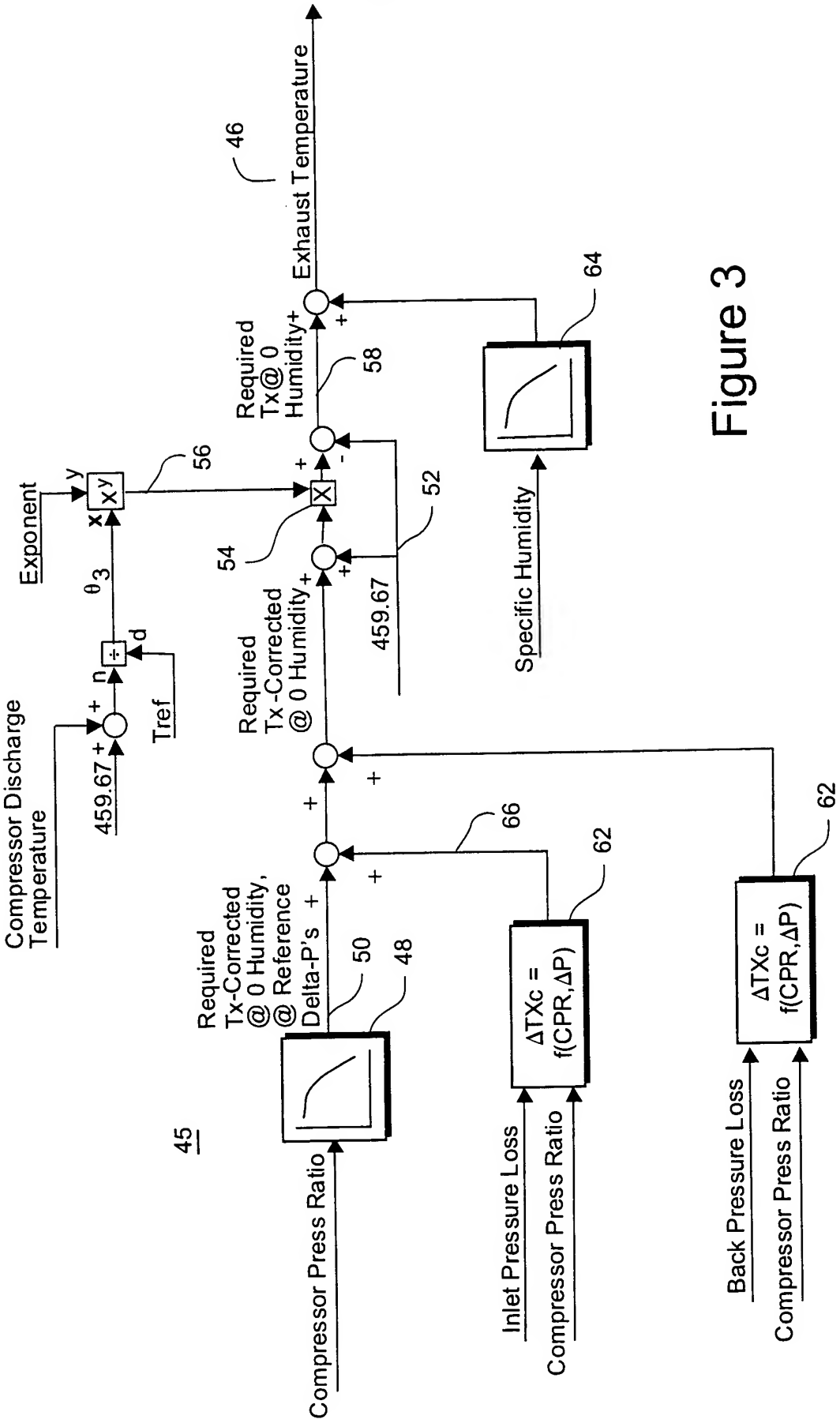

45
Compressor Discharge Temperature
459.67
Tref
Exponent
θ3
Compressor Press Ratio
Required Tx-Corrected @ 0 Humidity, @ Reference Delta-P's
48
50
Inlet Pressure Loss
Compressor Press Ratio
ΔTXc = f(CPR,ΔP)
62
Back Pressure Loss
Compressor Press Ratio
ΔTXc = f(CPR,ΔP)
62
66
Required Tx-Corrected @ 0 Humidity
459.67
52
54
56
Specific Humidity
64
Required Tx@ 0 Humidity
58
Exhaust Temperature
46

Figure 3

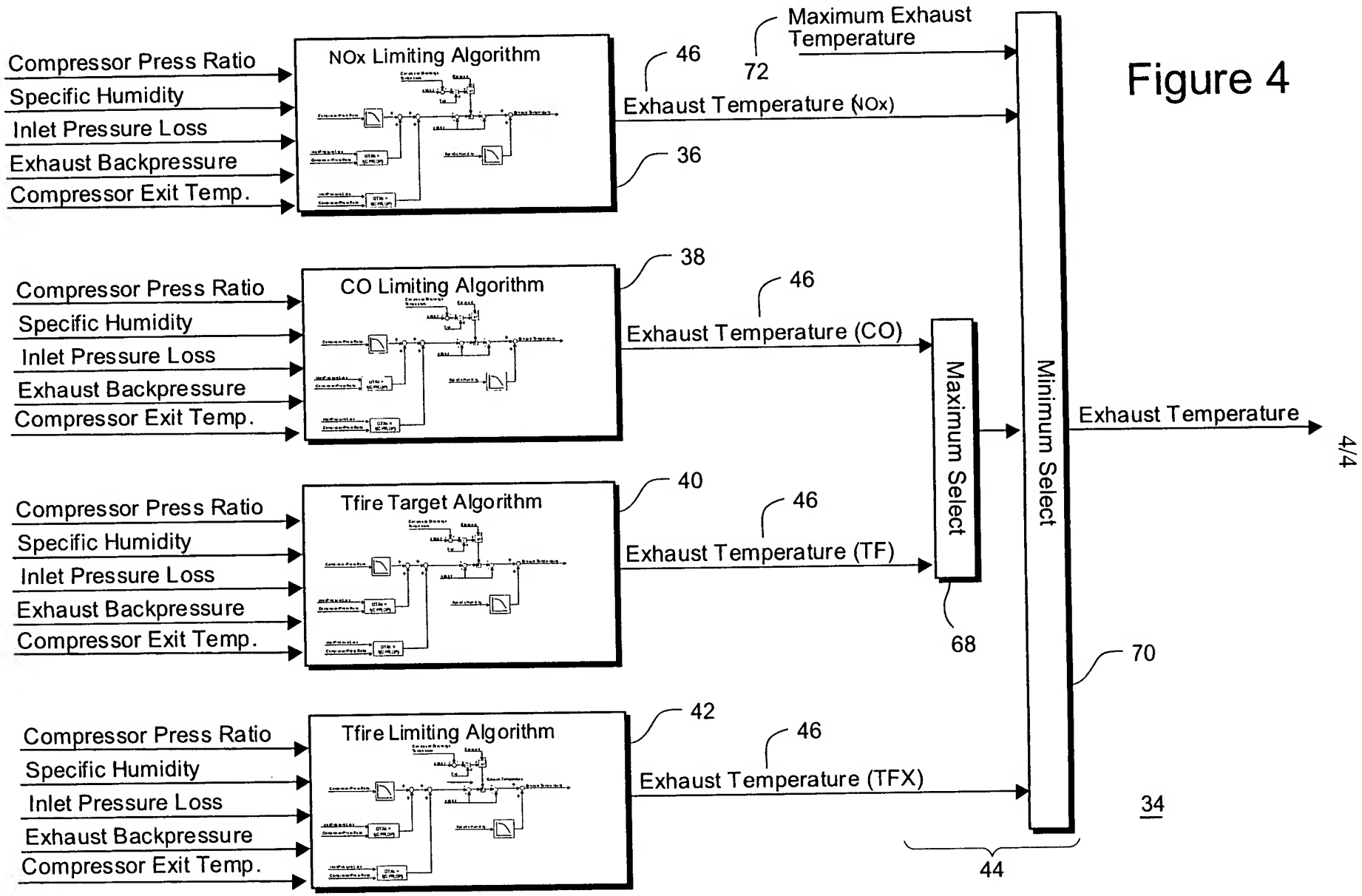

Compressor Press Ratio
Specific Humidity
Inlet Pressure Loss
Exhaust Backpressure
Compressor Exit Temp.
NOx Limiting Algorithm
46
Exhaust Temperature (NOx)
36
Maximum Exhaust Temperature
72
Compressor Press Ratio
Specific Humidity
Inlet Pressure Loss
Exhaust Backpressure
Compressor Exit Temp.
CO Limiting Algorithm
38
46
Exhaust Temperature (CO)
Compressor Press Ratio
Specific Humidity
Inlet Pressure Loss
Exhaust Backpressure
Compressor Exit Temp.
Tfire Target Algorithm
40
46
Exhaust Temperature (TF)
68
Compressor Press Ratio
Specific Humidity
Inlet Pressure Loss
Exhaust Backpressure
Compressor Exit Temp.
Tfire Limiting Algorithm
42
46
Exhaust Temperature (TFX)
Maximum Select
Minimum Select
Exhaust Temperature
70
34
44

Figure 4